

Docket No. 263999US2PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Noriya IZU, et al.

SERIAL NO: 10/517,771

GAU:

FILED: December 27, 2004

EXAMINER:

FOR: RESISTANCE TYPE OXYGEN SENSOR AND OXYGEN SENSOR DEVICE USING IT AND AIR/FUEL RATIO CONTROL SYSTEM

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449
(Modified)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.
263999US2PCTSERIAL NO.
10/517,771

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT
Noriya IZU, et al.FILING DATE
December 27, 2004

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AG	03-103760	04/30/91	JP (with English abstract)		NO
	AH	58-024850	02/14/83	JP (with English abstract & equivalent of US 4500412)		NO
	AI	58-092946	06/02/83	JP (with English abstract & equivalent of US 4453397)		NO
	AJ	06-222026	08/12/94	JP (with English abstract)		NO
	AK	61-093944	05/12/86	JP (with English abstract & equivalent of US 4958514)		NO
	AL	2003-149189	05/21/03	JP (with English abstract)		NO
	AM	59-027253	02/13/84	JP (with English abstract)		NO
	AN	03-267517	11/28/91	JP (with English abstract)		NO
	AO	10-505164	05/19/98	JP (equivalent of US 5824271 & WO 96/08712 - with English abstract)		NO
	AP	0 464 243	01/08/92	EP (with English abstract)		NO
	AQ	0 464 244	01/08/92	EP (with English abstract)		NO
	AR	42 10 397	10/07/93	DE (with English abstract)		NO
	AS	42 10 398	10/07/93	DE (with English abstract)		NO
	AT	55-137334	10/27/80	JP (English abstract only)		NO
	AU	62-174644	07/31/87	JP (English abstract only)		NO
	AV	07-063719	03/10/95	JP (English abstract only)		NO

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	ESPER, M.J. et al. "Titania Exhaust Gas Sensor for Automotive Applications", SAE Technical Paper Series, 790140, pages 1-9 1979				
	AX	VARHEGYI, E.B. et al. "Auger and SIMS study of segregation and corrosion behaviour of some semiconducting oxide gas-sensor materials", Sensors and Actuators B, vol. 18-19, pages 569-572 1994				
	AY	TAN, Guo-Long et al. "Electronic conductivity of a ZrO ₂ thin film as an oxygen sensor", Thin Solid Films, vol. 330, pages 59-61 1998				
	AZ					<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

U.S. PCT Application Serial No.: 10/517,771
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STATEMENT OF RELEVANCY

- 1) References AG-AO have been cited in the International Search Report. Copies of these references are being submitted herewith only when not automatically provided by the International Searching Authority.
- 2) References _____ have been cited in the corresponding _____ Search Report. A copy of these references is being submitted herewith.
- 3) References AP-AY are discussed in the specification. A copy of these references is being submitted here with.
- 4) References _____ are additional prior art known to Applicant. A copy of these references is being submitted herewith.